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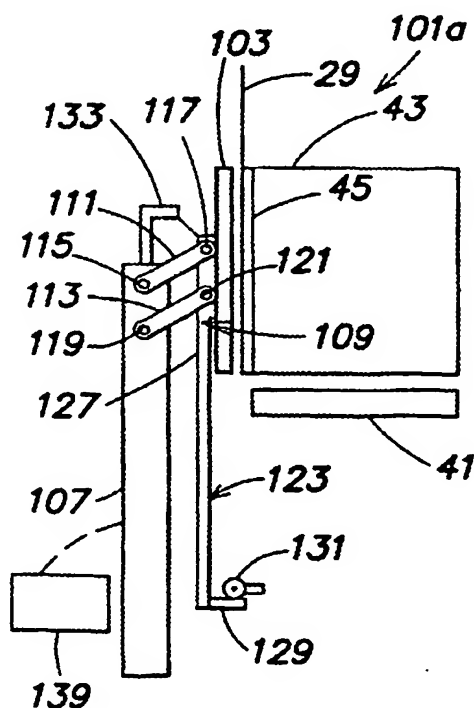
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60/217,147 7 July 2000 (07.07.2000) **US**
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- (88) Date of publication of the international search report:
27 June 2002

[Continued on next page]

(54) Title: **AUTOMATIC DOOR OPENER**

(57) Abstract: A wafer carrier opener is provided. The wafer carrier opener may eliminate the use of two separate actuators by using a four-bar linkage mechanism. The wafer carrier opener includes a wafer carrier door receiver, a horizontally stationary member, and a link coupled between the wafer carrier door receiver and the horizontally stationary member so as to allow horizontal movement of the wafer carrier door receiver.

WO 02/04774 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 5183/PCT/BG	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 01/ 41237	International filing date (day/month/year) 30/06/2001	(Earliest) Priority Date (day/month/year) 07/07/2000
Applicant APPLIED MATERIALS, INC. et al.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

3a

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

T/US 01/41237

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01L21/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 959 495 A (EBARA CORP LTD ;RORZE CORP (JP); DAINICHI SHOJI K K (JP)) 24 November 1999 (1999-11-24) the whole document ---	1-16
A	US 6 053 688 A (CHENG DAVID) 25 April 2000 (2000-04-25) column 6, line 42 - line 63 figures 3B-3F ---	1-16
A	US 6 042 324 A (AGGARWAL RAVINDER ET AL) 28 March 2000 (2000-03-28) the whole document -----	1-16



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

16 January 2002

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24/01/2002

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

T/US 01/41237

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0959495	A	24-11-1999	WO	9928965 A1	10-06-1999
			EP	0959495 A1	24-11-1999

US 6053688	A	25-04-2000	NONE		

US 6042324	A	28-03-2000	EP	1166333 A1	02-01-2002
			WO	0059004 A1	05-10-2000
